

10th Class 2021

Physics	Group-I	Paper-II
Time: 15 Minutes	(Objective Type)	Max. Marks: 12

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- The unit of electric power is:

- (a) Ohm (b) Watt ✓
(c) Farad (d) Joule

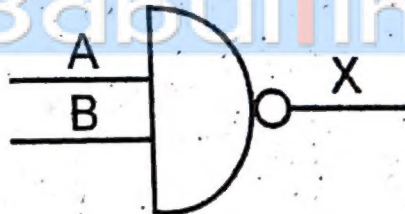
2- Number of components of computer-based information system is:

- (a) 3 (b) 4
(c) 5 ✓ (d) 6

3- The S.I unit of electric field intensity is:

- (a) NC^{-2} (b) NC^{-1} ✓
(c) NC (d) Nm

4- The logical operation performed by this gate is:



- (a) AND (b) NOR
(c) OR (d) NAND ✓

5- Generally an atom is represented by the symbol:

- (a) A_ZX ✓ (b) Z_AX
(c) ${}^Z_{Z+N}X$ (d) ${}^A_{A+Z}X$

6- **Waves transfer:**

- (a) Velocity (b) Energy ✓
(c) Wavelength (d) Frequency

7- **Formula of e.m.f is equal to:**

- (a) $E = \frac{Q}{W}$ (b) $E = \frac{Q}{t}$
(c) $E = \frac{W}{t}$ (d) $E = \frac{W}{Q}$ ✓

8- **The unit of intensity of sound is:**

- (a) Wm^{-2} ✓ (b) Wm^2
(c) Wm^{-1} (d) Wm

9- **For an ideal transformer:**

- (a) $P_p < P_s$ (b) $P_p > P_s$
(c) $P_p = P_s$ ✓ (d) $P_p \neq P_s$

10- **Capacitance of any capacitor is equal to:**

- (a) $C = \frac{Q}{V}$ ✓ (b) $C = \frac{V}{Q}$
(c) $C = QV$ (d) $C = \frac{1}{QV}$

11- **Snell's law is:**

- (a) $n = \frac{\sin r}{\sin i}$ (b) $n = \sin r$
(c) $n = \frac{\sin i}{\sin r}$ ✓ (d) $n = \sin i$

12- **Boolean expression of NOR gate is:**

- (a) $X = A \cdot B$ (b) $X = A + B$
(c) $X = \overline{A + B}$ ✓ (d) $X = \overline{A} \cdot \overline{B}$